

OIL ANALYSIS REPORT

MAGENTA NTX [200007685] 16WEA91118 - E-23

Wind Turbine Gearbox

SHELL OMALA S5 WIND 320 (--- LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX012265		
Sample Date		Client Info		29 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	20		
Iron	ppm	ASTM D5185m	>30	4 37		
Chromium	ppm	ASTM D5185m	>3	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>15	0		
Copper	ppm	ASTM D5185m	>10	5		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		<1		
Phosphorus	ppm	ASTM D5185m		481		
Zinc	ppm	ASTM D5185m		7		
Sulfur		ASTM D5185m		4066		
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	8		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.02	0.004		
ppm Water	ppm	ASTM D6304	>200	42		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		250599		
Particles >6µm		ASTM D7647	>1300	<u>^</u> 77782		
Particles >14μm		ASTM D7647	>160	▲ 342		
Particles >21µm		ASTM D7647	>40	<u>41</u>		
Particles >38μm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>17/14	23/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045

Contact/Location: DEVIN LINEHAN - NORDEX



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